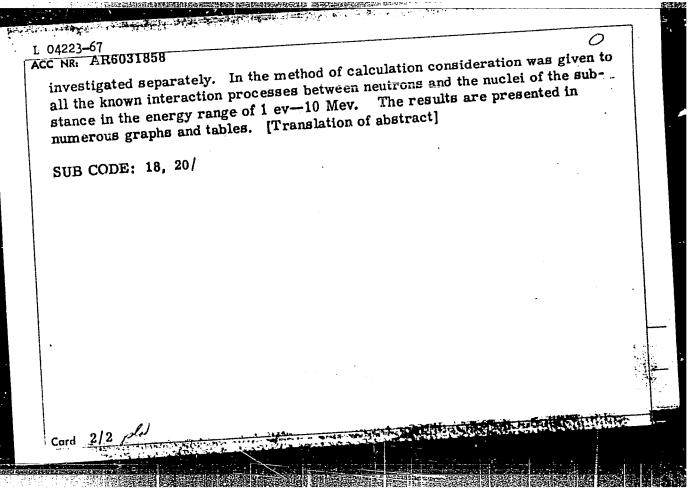
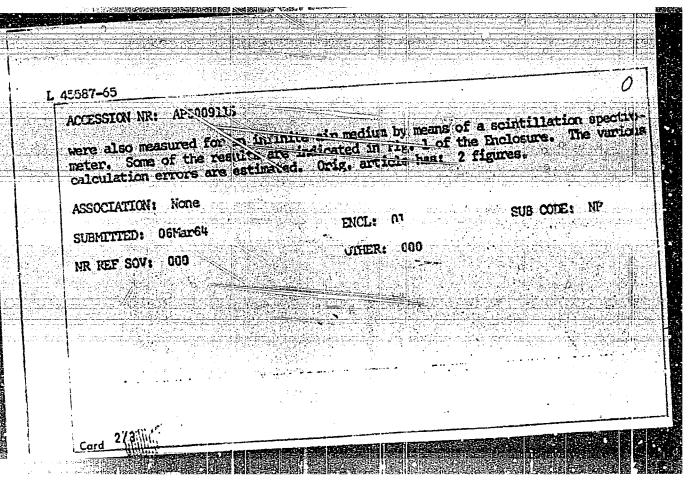
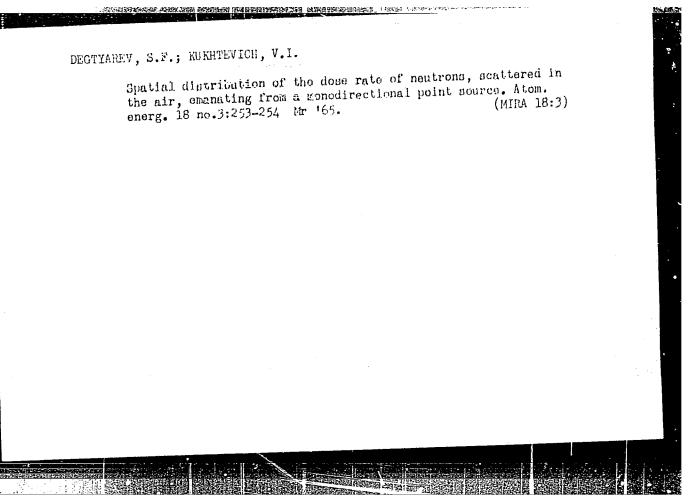
CHECOTORING PROBLEM PETERSHIP INCOME EWT(1)/EWT(m) L 04223-6 SOURCE CODE: UR/0058/66/000/006/V049/V049 ACC NR: AR6031858 AUTHOR: Gudkova, L. Ya.; Degtyarev, S. F.; Kukhtevich, V. I,; Zolotukhin, V. G. TITLE: Scattered-neutrons field at the interface of earth and water with air SOURCE: Ref. zh. Fizika, Abs. 6V405 REF SOURCE: Byul Inform. tsentra po yadern. dannym, vyp. 2, 1965, 346-382 TOPIC TAGS: scattered neutron field, earth air boundary, water air boundary, neutron flux, neutron dose rate, spatial variable, initial neutron energy ABSTRACT: The basic characteristics of the scattered-neutrons field at the interface of earth and water with air have been investigated by both calculation and experimental methods. The dependence of flux and dose rate on spatial variables and on initial neutron energy was studied. A modification of the Monte-Carlo method, known as the method of the local calculation of the flux, was used for computation, and it was assumed that earth is a mixture of dry sand SiO2 with a density of 1.7 g/cm3 and contains 10 wt % water. The case of water was Card 1/2



5587-65 EV (m) Peb OIAAP DM S/0089/65/018/003/025	10252 B
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MITHOR: Yermikov, S. Mil Attorney of scattering Gamma radiation from	awis
TITLE: Spatial and energy distribution air medium directional source in an infinite air medium directional source in an infinite air medium source: Atornaya energiya, v. 18, no. 3, 1965, 251-252 SOURCE: Atornaya energiya, v. 18, no. 3, leading distribution, energy distribution, ene	ibution,
TOPIC TAGS: reactor Chillia	oth by the
ARSTRACT: The field of the scattered gammer adaptation of the tatte (Vop	rosy fiziki P. 171).
tion to the present problems of Reactor Shield in angles of tion to the present problems of Reactor Shield in angles of tion to the present problems of Reactor Shield in angles of tion to the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the present problems of Reactor Shield in angles of the problems of the problems of Reactor Shield in the problems of the problems	calculated al energies
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3) teters, (3) distance of 120, and 1500.	





L 58755-55 EWA(h)/SWT(m)

ACCESSION NR: AP5012484 UR/co89/65/018/004/0416/0418 30

AUTHORS: Vernakov S. M.; Vefimenko, B. A.; Zoletukhin, V. G.;

Kolevatov, Yu. A.; Kukhtevich, V. I.

TITLE: Spatial and energy distribution and dose rate of gamma radiation of unidirectional and isotropic sources of Co-60 at the ground-air interface

SOURCE: Atomnaya energiya, v. 18, no. 4, 1965, 416-418

SOURCE: Atomnaya energiya, v. 18, no. 4, 1965, 416-418

TOPIC TAGS: gamma radiation, spatial distribution, energy distribution, unidirectional source, isotropic source, cobalt 60 source, bution, unidirectional source, isotropic source, cobalt 60 source, air ground interface

ABSTFACT: The article presents the results of measurements and and energy distributions of Monta-Carlo calculations of the spatial and energy distributions of soattered gamma radiation from a unidirectional Co-60 source (average soattered gamma radiation from a unidirectional Co-60 source (average energy 1.25 MeV) at a source-detector distance equal to 15 and 30 energy 1.25 MeV) at a source and detector raised to equal height (2, 10, meters, and for the source and detector raised to equal height (2, 10)

587:16-65 ACCESSION NR: AP5012484

30, and 53 meters) above ground. The measurement and the calculations were carried out for two angles (60 and 90°) of orientation of the unidirectional source. The source was in the form of a sphere 0.005 meters in diameter, covered with a shadow shield with total aperture angle 50. The detector was a scintilistion spectrometer with NaI(TI) orystal with diameter and reight 0.04 neters. The variant of the Nonte-Carlo method used for the calculation of the gamma radiation spectrum, known as the method of local flux calculation, was described by the authors elsewhere (in collection: Voprosy fiziki zashchily reaktorov [Problems in Reactor Shielding Physics]; edited by D. L. Broder et al., Cosatomizdat, 1963, F. 171). A comparison of the scatter-culated and measured spatial and energy distributions of the scatter-ed gamma radiation shows a spreading of the maxima in the experimental data. ed gamma radiation shows a spreading of the maxima in the experimental data, owing to the finite energy resolution of the spectrometer and the relatively large sperture of the source angle. The calculated and measured spatial and energy distributions of scattered gamma ted and measured spatial and energy distributions of scattered gamma radiation from an isotropic source are in better agreement and pradictally coincide with distribution for infinite height. The calculated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirectional and from culated and experimental dose rates from a unidirection contact and practical dose rates from a unidirection contact and cont culated and experimental dose rates from a unidirectional and from

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an isotropic source	are also in good agreement.	The authors these
Original article ha	are also in good agreement. K. G. Ivanov for help with the series of th	ne experiment, thank nd 2 tables.
ASSOCIATION: None		
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	생활 및 선생님들이 살아 있는 것이 되는 것이 되는 것이 없는데 얼마나 없다는 것이다.	한 전상 내가 되는 한 것은 하는 데 사는 사람들의 사람들이 되지 않는 사람들이 한 그는 사람들이 되었다. 생각 사람들이 되었다.
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L 05064-67 SWI(m)/EMP(t)/ETI LIP(c) JD/JG/JR/GD ACC NR AT6027938 SOURCE CODE: UR/0000/66/000/000/0202/0205 AUTHOR: Degtyarev, S. F.; Kukhtevich, V. I.; Matusevich, Ye. S.; Popov, V. I. ORG: None TITLE: Spectra of air-scattered neutrons from a Po-α-Be source surrounded by iron Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding) sbornik statey, no. 2. Moscow, Atomizdat, 1966, 202-205 TOPIC TAGS: radiation shielding, neutron energy distribution, neutron spectrum, ABSTRACT: The authors measure the energy distributions of neutrons scattered in the unbounded atmosphere. The distance between source and detector was set at 10 m. A composite Pc-Be source with an intensity of approximately 5.108 neutr/sec was used with surrounding iron shielding with wall thicknesses of 5, 10 and 15 cm. A spherical ionization chamber filled with a mixture of 5 atm of argon and 5 atm of hydrogen was used for neutron detection. The measurements were made in the 0.8-3.0 Mev range. The results show unbalanced neutron spectra in iron at low energies (average spectral energy from the Po-Be source is 4.5 Mev). The initial neutron spectrum is softened by scattering in air at the energies studied. The number of scattered neutrons decreases Card 1/2

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e used :	for mod	leling va	rious d	descendi	ng cont	inuous si tered in	20120	and fo	· ·				
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L 05380-67 AT6027939 ACC NR SOURCE CODE: UR/0900/66/000/000/0206/0209 AUTHOR: Degtyarev, S. F.; Kukhtevich, V. I.; Tarasov, V. V. ORG: None TITLE: Experimental study of the propagation of thermal neutrons close to the source SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics or reactor hielding sbornik statey, no. 2. Moscow, Atomizdat, 1966, 206-209 TOPIC TAGS: thermal neutron, neutron distribution, fast neutron, neutron scattering ABSTRACT: The density of thermal neutrons is experimentally studied to provide data for computing capture γ-radiation in air. A Po-Re fast neutron source was used in a paraffin block having walls 20 cm thick. Thermal neutrons are taken as those with an energy below the cadmium threshold E < 0.4 MeV and neutrons with greater energies are called fast neutrons. An SNM-0 boron counter was used for measuring the density of thermal neutrons. The source and detector were located at an altitude of 60 m to eliminate the effect of neutrons scattered from the earth. Three quantities were measured directly: 1. the density of neutrons throughout the entire spectrum escaping from the paraffin block; 2. the density of thermal neutrons formed from the fast neutrons; 3. the density of fast neutrons escaping from the source and propagated in the Card 1/2

ACC NR: AT6027939

atmosphere. The results show that the fraction of thermal neutrons produced by attenuation in the atmosphere is small in comparison with the thermal neutrons for the given spectrum. A comparison of experimental and theoretical data for thermal neutron distribution shows excellent agreement at a source temperature of 293°R with some discrepancy when the source temperature is increased to hipo'K. Experimental error is less than 6-10%. This discrepancy between experimental and theoretical data is not understood and requires further study. Orig. art. has: 2 figures, 1 table, 2 formulas.

SUB CODE: 18/ SUEM DATE: 12Jan66/ ORIG REF: 004/ OTH REF: 001

10-105CA in a list JR/GD ACC NR: AT6027940 SOURCE CODE: UR/0000/66/000/000/0210/0215 AUTHOR: Degtyarev, S. F.; Kukhtevich, V. I. ORG: None TITLE: Spatial distribution of the dose rate from an isotropic point source of neutrons in the atmosphere and at the air-earth interface SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding) sbornik statey, no. 2. Moscow, Atomizdat, 1966, 210-215 TOPIC TAGS: radiation source, neutron distribution, radiation dosimetry ABSTRACT: Experimental results are given on the spatial distribution of relative doss rate for neutrons scattered in the unbounded atmosphere and at the air-earth interface from an isotropic point source with average initial spectral energies of 4.2 Mev (Po-Be source) and 1.9 Mev (Po-Be source in an iron sphere with a wall thickness of 6 cm). The experimental setup is shown in the figure where 3 is a conical screen be-tween the source and detector to eliminate the Card 1/3

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ACC NR AT6027940

effect of direct radiation. An isodose neutron dosimeter was used for neutron detection. The detector has a noticeable anisotropy and therefore the dose rates were measured at 3 mutually perpendicular positions of the detector and the results were averaged. The angles $\Delta \eta$ were determined experimentally and were 19, 25, 38, 48 and 58° for the Po-Be source and 10, 17, 23, 34, 44 and 54° for the 1.9 Mev source. The distance R was varied from 9.8 to 30.5 m and the height H was adjustable from 1 to 50 m. It was found that an increase in the height H results in an increase in the relative dose rate up to ~5 m followed by a smooth reduction in dose rate with an increase in height above this point. The dose rate as a function of distance R is approximately linear. The dose rate as a function of distance, height and initial neutron energy when H is held constant is given by the expression

$$D(R, H, \overline{E}_u) = L(H, \overline{E}_0) \cdot R^{2-\eta(H)}$$

for R from 7 to 30 m and H from 2 to 30 m. In this formula

$$\eta(H) = 2\exp\left[-\frac{\sqrt{H}}{2\left(1 - \frac{H-2}{H^{1.55}}\right)}\right] + 1,$$

where $\overline{\lambda}$ is the mean free path of the neutrons in as \overline{z} . We give specific

Card2/3

L 05381-67 CONR. APPROXED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927310005

comparing experimental data for the done rate with who has lits of this expression where excellent agreement. The simple expression

$$D(R, E_0) = 0.19 \cdot \frac{R}{V\bar{k}}$$

may be used for practical calculations of the relative have rate for initial neutron energies of less than 6 Mey. In conclusion the authors were V. V. Tarasov, Yu. V. Fadeyev and Ye. T. Bondarev for assistance with the we to Orig. ort. Will 4 figures 1 table, 8 formulas.

SUB CODE: 18/ SUBM DATE: 12Jan66/ ORIG REF: 002/ TERREF: 007

L 05382-67 EWT(m) JR/GD

ACC NR: AT6027941

SOURCE CODE: UR/0000/65/000/000/07

AUTHOR: Kolevatov, Yu. I.; Kukhtevich, V. I.; Trykov, O. A.

ORG: None

19

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PITLE: Energy distribution and dose rate of gamma quanta scattered at the air-cartininterface

SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding) sbornik statey, no. 2. Moscow, Atomizdat, 1966, 216-225

TOPIC TAGS: gamma radiation, angular distribution, radiation source

ABSTRACT: The authors study the angular energy distribution of scattered v-radiation from an isotropic point source (Co^{60}) at source-to-deplator distances of 50 and 30 m and heights above ground level of 2-53 m. A method is proposed for determining the scattering field of γ -radiation close to the boundary between two media based on an analysis of the results of this work and a comparison with the data in the literature. The geometry of the experiment is shown in the figure. About 70 energy distributions were measured in all covering a range of 12-180° for 0 and 0-140° for ϕ . The results show that the parameters h, R, θ and ϕ have a characteristic effect on the form of the angular energy distributions. Sharp maxima are observed in the energy region above

Card 1/2

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0.22 Mev due to single scattering of γ -quanta from the surface of the earth at an angle ψ given by the expression

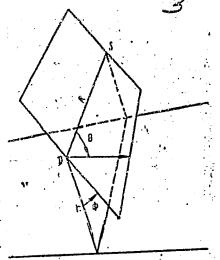
$$ig\psi = \frac{2\sin^2\theta}{\sin 2\theta - \frac{2n}{R\cos\phi}}$$

In the limiting case at an infinite distance from the surface of the earth the angular energy distributions have a maximum in the region of approximately 0.22 Mev due to single scattering of γ -quanta through an angle π . The spatial energy distributions of scattered γ -quanta from an isotropic point source also show a maximum in the region of approximately 0.22 Mev which disappears with a reduction in the ratio h/R. A comparison of the theoretical and experimental data for the spatial distribution of the dose rate of scattered γ -radiation from an isotropic source close to the earth-air interface as a function of h and R shows

the earth-air interface as a function of A and A shows agreement with an average accuracy of ±20%. The authors thank Yu. V. Fadeyev, A. I. Novikov and N. I. Soldatov for assistance with the work. Orig. art. has: 7 figures, 2 tables, 7 formulas.

SUB CODE: 18/ SUBM DATE; 12Jan66/ ORIG REF: 008/ OTH REF: 004

Card 2/2



L 06979-67 SOURCE CODE: UR/0089/55/020/005/0424/0424 ACC NR: AP6018354 ; Mukhtevich, V. I.; Popov, V. I.; Tarasov, V. V.; AUTHOR: Kazanskiy, Yu. A Shemetenko, B. P. ORG: none TITLE: Dependence of the buildup factor on the location of the detector behind the shield Atomnaya energiya, v. 20, no. 5, 1966, 424 SOURCE: TOPIC TAGS: reactor shielding, gamma scattering, gamma detection, scintillation detector . ABSTRACT: This is an abstract of article No. 76/3559, submitted to the editor and filed, but not published in full. Inasmuch as earlier investigations of the buildup factors, with the aid of which account is taken of the scattered gamma radiation, were made for observation points situated either inside or on the surface of the shield, the authors measured the accumulation factors with a radioactive source of gamma radiation (Cs137) at different positions of the detector and the source behind an aluminum barrier of thickness equal to 2.8 mean free paths and of diameter UDC: 539.122:539.121.72 Card 1/2

L 06979-67

ACC NR: AP6018354

40 cm. The measurements were made with a scintillation detector (stilbene crystal). The distance from the source to the shield surface facing the detector ranged from 18 to 150 cm. For each value of this distance, the distance from the surface of the shield to the detector was varied from 0 to 500 cm. The results show that the decrease of the accumulation factor with increasing distance R has the form (lsinθ)exp(-kpθ) for a point-like isotropic scurce on the surface of the shield, and the form exp(-kpθ) for a plane parallel beam. The test results were compared with values calculated in accordance with a semiempirical procedure described by the authors earlier (Byulleten' Informatsionnego tsentra po yadernym dannym [Bull. of Information Center on Nuclear Data] no. 2, Atomizdat, 1965, p. 305. Orig. art. has: 1 figure.

SUB CODE: 18 SUBM DATE: 30Dec65/ ORIG REF: 002

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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927310005-4

ACC NR: A16034091

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SOURCE CODE: UR/0089/66/021/004/0246/0254

Trykov, L. A.; Goryachev, I. V.; Kukhtevich, V. I. AUTHOR:

ORG: none

TITLE: Measurement of the dose albedo of fast neutrons when different shields are used

SCURCE: Atomnaya energiya, v. 21, no. 4, 1966, 246-254

TOPIC TAGS: neutron albedo, fast neutron, neutron shielding, neutron energy distribution, neutron spectrum, radiation dosimetry

ABSTRACT: The authors investigated the energy distribution of fast neutrons reflected from iron, ground, water, and polyethylene under normal and oblique incidence of a broad unidirectional beam of neutrons on the surface of the reflector. They also investigated the dependence of the albedo of the neutrons on the thickness of a flat reflector layer made of iron. The measurements were made with an isotropic detector placed on the surface of the shield. The neutrons were obtained from a zero-power research reactor. The detector was a single-crystal scintillation neutron spectrometer similar to that described by Yu. A. Kazanskiy et al. (Atomnaya energiya v. 20, 143, 1966). The mean square measurement error was not larger than 50% for water and polyethylene and 10% for iron and ground. Two methods were used to measure the albedo one by recording the number of reflected neutrons against the background of the direct radiation (difference method), and by suppressing the unscattered neutrons with a

1/2 Card

UDC: 621.039.58: 539.125.52

ACC NR: AP6034091

shielding cone. The methods yielded results that agreed within 10%. Plots of the reflected-neutron spectra are presented and empirical formulas for them are given. The results show that the dose albedo of the neutrons depends on the thickness of the iron layer employed. The angular dependence of the dose albedo of neutrons reflected from iron and from ground show a similar behavior, decreasing with increasing angle of incidence. In the case of water, however, the dose albedo shows a slight increase with angle (up to 70°). This is attributed to the predominant forward scattering of neutrons by hydrogen atoms. The results are found to agree with those obtained by others. Orig. art. has: 7 figures and 2 formulas.

SUB CODE: 18, 20/ SUBM DATE: 05Apr66/ ORIG REF: 003/ OTH REF: 004

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927310005-4

ACC NR: A77000798

SOURCE CODE: UR/0089/66/021/005/0392/0394

AUTHOR: Degtyarev, S. F.; Kukhtevich, V. I.; Suvorov, A. P.; Tarasov, V., V.; Tikhonov, V. K.; Tsypin, S. G.

ORG: none

TITLE: Angular distributions of fast neutrons emerging from hydrogen-containing media

SOURCE: Atomnaya energiya, v. 21, no. 5, 1966, 392-394

TOPIC TAGS: fast neutron, neutron distribution, lithium compound, water, neutron radiation, radiation intensity, neutron shielding, neutron detector

ABSTRACT: The authors report results of experiments on the angular distributions of the flux (dose intensity) of fast neutrons with energy $E \ge 0.7$ MeV, emerging from plates of lithium hydride of 0.5 g/cm³ density and 15, 30, 45, and 60 cm thick, and from layers of water 15 and 45 cm thick. The radiation source was a collimated beam of neutrons (plane unidirectional source). The neutron spectrum was similar to that of the BSR reactor. The measurements were made for angles 0 - 55°. The neutrons were registered with a fast-neutron scintillation detector consisting of a Plexiglas tablet with ZnS(Ag) admixture, secured to the end window of a photomultiplier (FEU-59). The results show that for angles larger than 10° a change in the plate thickness has little effect on the form of the angular distribution. At angles 0 - 10°, the neutron flux exhibits a pronounced peak due essentially to unscattered neutrons. With increasing thickness of lithium-hydride plates, the height and width of this

Card 1/2

539.125.5: 539.121.72

ACC NR: AP7000798

peak decrease, owing to the increase in the fraction of scattered neutrons. The results for lithium agree satisfactorily with results of many-group calculations by the authors (Voprosy fiziki zashchity reaktorov [Problems in the Physics of Reactor Shielding], edited by D. L. Broder et al., no. 2, M., Atomizdat, 1966, p. 18). The results for lithium and water are likewise in good agreement with similar measurements by others. The results also show that there is little difference in the data for lithium hydride, polyethylene, and water, the results agreeing within 20% at angles 20 - 60°, and by not more than 30% at smaller or larger angles. The authors used results of individual measurements by L. A. Trykov and I. V. Goryachev. Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 2018/ SUBM DATE: 05Jul66/ ORIG REF: 002/ OTH REF: 003

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Card 2/2

ACC NR: AP/000799

SOURCE CODE: UR/0089/66/021/005/0394/0395

AUTHOR: Bozin, G. M.; Degtyarev, S. F.; Kukhtevich, V. I.; Sinitsyn, B. I.; Tikhonov, V. K.; Staroverov, V. B.; Tsypin, S. G.

ORG: none

TITLE: Passage of fast neutrons through thick layers of lithium hydride

SOURCE: Atomnaya energiya, v. 21, no. 5, 1966, 394-395

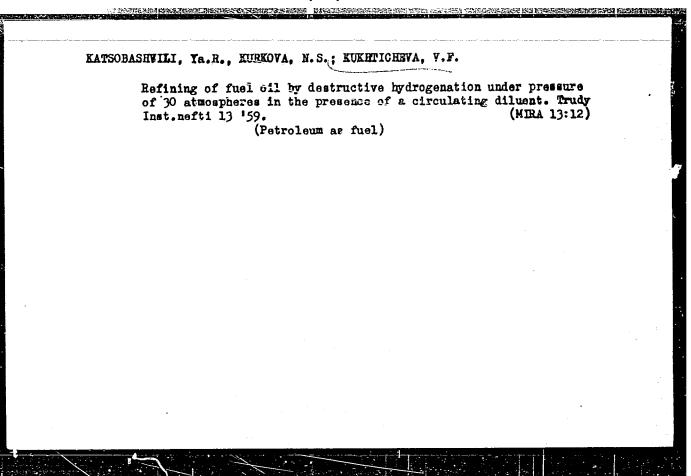
TOPIC TAGS: fast neutron, neutron radiation, radiation intensity, lithium compound, neutron shielding, neutron distribution

ABS'TRACT: The authors investigated experimentally the attenuation of the flux (dose intensity) of fast neutrons in lithium hydride of density 0.5 g/cm3. The unidirectional neutron source employed and its spectrum are described in a preceding paper in the same source (p. 392, Acc. Nr. AP7000798). The shield tested was made up of blocks of lithium hydride with channels for the detector. The empty channels were sealed during the measurements with stoppers made of the same material. The transverse dimensions of the shielding blocks were chosed such taht the detector plates inside the shield was under conditions of so-called infinite geometry. To determine the accumulation factor in the lithium hydride, measurements were made of the neutron attenuation in good geometry under careful collimation of the source and detector. The fast-neutron flux was registered with a scintillation counter with a tablet of ZnS(Ag) mixed with Plexiglas. Plots for the attenuation of neutrons with energy

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VDC: 539.125.5: 539.121.72

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KATSOBASHVILI, Ya.R.; KURKOVA, N.S.; LIKHOBABENKO, V.S.; LEVITSKIY, E.A.;
KUZ'MINA, T.N.; KUKHTICHEVA, V.F.; MOSOLOVA, F.A.

Preparation of mechanically strong catalysts based on aluminum oxide. Trudy Inst. nefti 14:160-186 '60. (MIRA 14:5) (Catalysts)
(Aluminum oxide)

KATSOBASHVILI, Yg.R.; KURKOVA, N.S.; LIKHOBABENKO, V.S.; LEVITSKIY, E.A.; KUZ'MINA, T.N.; KUKHTICHEVA, V.F.; MASOLOVA, F.A.

Effect of the conditions under which the hydroxide precipitates on the mechanical durability of aluminum oxide. Izv. AN SSSR. Otd. khim. nauk no.2:245-250 F '61. (MIRA 14:2)

1. Institut meftekhimicheskogo sinteza AN SSSR. (Alumina)

KUKHTIKOV, G., kranovshchik (Moskovskaya obl.)

A jump more than head-high. Izobr.i rats. no.5 (201):29 '63.
(MIRA 16:7)
(Granes, derricks, stc.—Technological innovations)

KUKHTIKOV, M.M.

"Contribution to the Geomorphology of the Valley in the Upper Reaches of the Vakhsh River," Izv. Otd. Yestestv. Nauk AN Tadzh SSR, No 6, 129-135, 1954

The Vakhsh River valley from the confluence of the Surkhoba and Obikhingou rivers to the mouth of the Kyldera River possesses the characteristic beaded structure. In the Komsomolabadsk basin-shaped widening, one can distinguish ten terraces. The upper five terraces are complicated by coarse conglomerates and porose sands and possess a local development. The author does not agree with their treatment as "typical serration terraces" (K.K. Markov, Pamir, 1936). (RZhGeol, No 1, 1955)

SO: Sum. No. 536, 10 Jun 55

KNKHTIKOV, M. M.

15-1957-8-9177

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,

ALTERNATION AND ARREST AND STREET, STR

AUTHOR:

Kukhtikov, M. M.

TITLE:

The So-called Geological Boundary Between Pamir and Alay-Tyan'-Shan' (O tak nazyvayemoy geologicheskoy granitse mezhdu Pamirom i Alayem-Tyan'-Shanem)

PERIODICAL: Uch. zap. Tadzh. un-t, 1955, vol 6, pp 5-12

ABSTRACT:

The author agrees with V. M. Sinitsyn (Izv, AN SSSR, ser. geol., 1945, Nr 6), that the relations between Pamir and Alay-Tyan'-Shan' should not be explained as a whole, but for each tectonic stage individually. It is shown that the boundary between the regions has not remained stationary. In addition, inhomogeneous tec-

tonic forms occur in the Alpine structure of

Card 1/2

CIA-RDP86-00513R000927310005-4" APPROVED FOR RELEASE: 08/23/2000

The So-called Geological Boundary Between Pamir (Cont.)

Alay-Tyan'-Shan' and Pamir. Both systems are divided into a series of internal structures of the first order, bordered by "boundary" or "deep" fractures. According to the author, only these borders are subject to discussion.

A. I. Suvorov

Card 2/2

15-57-4-4447

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

p 59 (USSR)

Baratov, R. B., Kukhtikov, M. M. AUTHORS:

STREET, STREET,

The Geological and Fetrographic Features of the Sina TITLE:

Intrusive Southwestern Spurs of the Gissarskiy Khrebet (Range) / Geologo-petrograficheskaya kharakteristika intruzīvā Sina (Yugo-zapadnyye otrogi Gissarskogo

khrebta)/

Izv. Otd. yestestv. nauk AN TadzhSSR, 1956, Vol 15, PERIODIC AL:

pp 3-8.

The Sina stock-like granite intrusive, covering an area ABSTRACT:

of about 25 km2, is exposed in the basin of the

Sangardak River northwest of the village of Sina in the Denau district in the southwestern spurs of the Gissarskiy Range. The host rocks are metamorphic, presumably of Precambrian age, and clastic-tuffaceous, of

Lower Carboniferous age. The granite is a medium-Card 1/2

15-57-4-4447

The Geological and Petrographic Features (Cont.)

grained, locally inequigranular, massive rock. The mineral content, in percent, is potassium feldspar 33, quartz 32, plagioclase 24, and muscovite and biotite 8. Near the contact with metamorphic schists the quantity of plagioclase, biotite, and muscovite increases. The potassium feldspar is orthoclase microperthite and the plagioclase is acid andesine. Muscovite formed at the expense of biotite, in many places replacing it completely. The granite is hypidiomorphic granular. Dikes of aplitic muscovite granite, granite porphyry, quartz porphyry, and lamprophyre (kersentite and odinite) occur in the granites and in the country rocks. South of the Sina intrusive, in the basin of the Bulungur River, a mass of hornblendebiotite granodiorite is exposed. It is similar to the Middle Carboniferous quartz diorites and granodiorites in the Barzob River basin (Baratov, Izv. Otd. estest. nauk Tadzh SSR, 1954, Vol 8). Card 2/2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,

pp 60-61 (USSR)

AUTHOR:

Kukhtikov, M. M.

TITLE:

The Zonal Structure and Some Questions on the Magmatic Geology of the Southern Slope of the Gissarskiy Range (Southern Tyan-Shan') / Tektonicheskaya zonal'nost' i nekotoryye voprosy magmaticheskoy geologii yuzhnogo sklona Gissarskogo khrebta (Yuzhnyy Tyan'-Shan')/

PERIODICAL:

Tr. AN TadzhSSR, 1955, vol 58, pp 49-62

ABSTRACT:

Geotectonic zones are differentiated in the Hercynian structures on the southern slope of the Gissarskiy Range; these are based on stratigraphic types (nature of the facies, thickness of the deposits, and stratigraphic continuity or discontinuity of the section), time of felding, structural morphology, and nature of the magmatic activity and metamorphic processes. 1) The Surkhantauskaya zone has a three-staged character of pre-Alpine structures, including Precambrian metamorphic

Card 1/4

The Zonal Structure and Some Questions on the Magmatic Geology of the Southern Slope of the Gissarskiy Range

rocks, Lower Carboniferous clastic and volcanic formations, and an upper Paleozoic series of indistinctly bedded conglomerates. The phases of tectogenesis occurred in the Precambrian (?), at the end of the Lower Carboniferous, and at the end of the Paleozoic. 2) The Baysun-Kshtutskaya zone is distinguished from the preceding by a thick sequence of Devonian marble, marmorized limestone, phyllite, and quartz-sericite schist. The structure is the result of three tectonic phases (at the end of the Devonian, at the end of the Lower Carbonifercus, and at the end of the Paleozoic). 3) The Suzystauskaya zone, composed of Precambrian augen gneisses and Lower Carboniferous volcanic rocks, is characterized by Precambrian and Lower Carboniferous phases of folding. 4) The Karatag-Romitskaya zone is composed of Precambrian metamorphic rocks; Lower Carboniferous conglomerates, sandstones, and effusives; Middle Carboniferous volcanic rocks; Upper Carboniferous sandy shales, marls, sandstones, and con-glomerates; Lower Permian acid lavas and tuffs, and Upper Permian redbeds of the Khanakinskeya series. The zone was formed

Card 2/4

The Zonal Structure and Some Questions on the Magmatic Geology of the Southern Slope of the Gissarskiy Range

by four orogenic phases (pre-Lower Carboniferous, Upper Carboniferous, and two in the Permian. 5) The Osmantalinskayezone is characterized by a stratigraphic column with two members a) strongly metamorphosed middle Paleozoic sequence and Lower Permian effusive quartz porphyries) and represents one phase of tectogenesis (middle Paleozoic). 6) The Central Gissarskayezone includes a shale and limestone series of late Silurian age, all three divisions of the Devonian system (lower, limestone; middle, calcareous shale; upper, limestone), a Lower Carboniferous limestone sequence, upper Paleozoic arenaceous shales and sandlimestone sequence, upper Paleozoic arenaceous shales and sandlinestones, and Mesozoic deposits. The zone is the result of one intense phase of tectogenesis (appearing in the second half of the late Carboniferous). 7) The absence of Paleozoic rocks in the area of the Garm-Khaitskayezone makes it difficult to determine the age of the structure. Intrusive activity accompanied the principal tectonic phases, giving rise to various granitic intrusive complexes. The current outline of the magmatism in the Gissarskiy Range is presented; according to this view all

The Zonal Structure and Some Questions on the Magmatic Geology of the Southern Slope of the Gissarskiy Range

the magmatic rocks belong to one upper Paleozoic cycle and are divided into two principal intrusive phases sharply contrasted in age (gray and red granites) and three volcanic phases. From the data gathered together in this paper, the author shows the possibility of outlining the principal features of the magmatic processes of the region in a different way from the scheme mentioned above. 1) In addition to Middle Carboniferous volcanic rocks, there are Lower Carboniferous and middle Paleozoic volcanics of the same composition. 2) The following sequence of intrusive formations seems to be the most plausible: a) Precambrian intrusives (the Aylyangarskiy intrusive complex of G. S. Chikryzov and part (?) of the granites of the Garm-Khaitskaya zone); b) middle Paleozoic intrusions of the Osmantalinskiy zone (northern Varzobskiy massif); c) Upper Carboniferous intrusions of the Karatag-Romitskaya and Contral Gissarskaya zone (the Kharangon granodiorites, the porphyritic biotite-horn-blende granites of the southern Varzobskiy massif, and others); and d) Permian intrusions in the Khodzha-Obi-Garmskaya bordering fault zone.

Card 4/4

A. D. Sokolov

BARATOV, R.B.; KUKHTIKOV, M.H. On the age of the Sina intrusion (southwestern spurs of the Gissar Range). Dokl.AN SSSR 107 no.2:299-301 Mr '56. (MIRA 9:7) 1.Institut geologii Akademii nauk Tadzhikskoy SSR. Predstavleno akademikom M.M.Strakhovym. (Gissar Range-Geology, Stratigraphic) (Sina Valley--Rocks, Igneous)

KUKHTIKOV, M.M.; SALTOVSKAYA, V.D.; GHERENKOV, I.N.

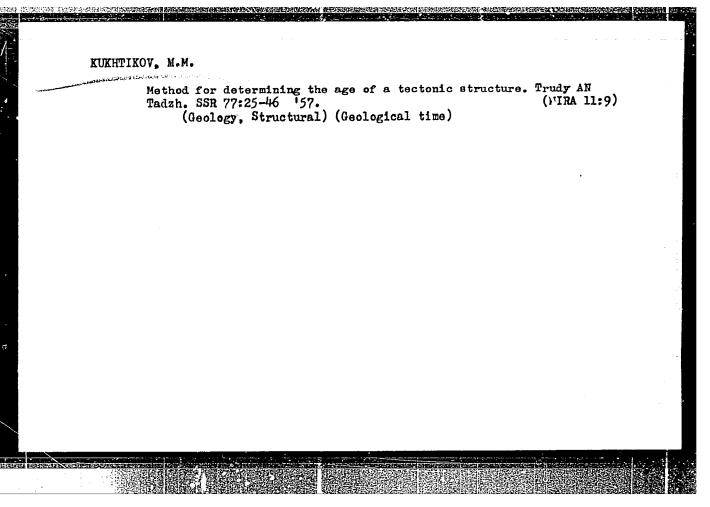
Stratigraphy of Paleozoic terrigenous deposits in the central part of the Zeravshanskiyand Gissar Ranges. Dokl. All Tadzh. SSR

no. 22:3-8 157.

(MIRA 11:7)

1. Institut geologii Ali Tadzhikskoy SSR. Predstavleno skedemikom Ali Tadzhikskoy SSR A.P. Nedzvetskim.

(Zeravshanskiy Range-Goology, Stratigraphic) (Gissar Range-Goology, Stratigraphic)



KUKHTIKOV, M.M.; SALTOVSKAYA, V.D.; CHERENKOV, I.N.

New data on the geology and Carboniferous sediments of the southern slope of the Chumkar-Tau (western extremity of the Tunkestan Range). Trudy AN Tadzh.SSR 104 no.1:95-100 *59. (MIRA 15:4)

 Institut geologii AN Tedzhikakov SSR. (Turkestan Range—Geology)

5.3300(8) 5.1190

69662

S/180/60/000/02/025/028

B071/E135

Katsobashvili, Ya.R., Kuz'mina, T.N., Kurkova, N.S., Kukhticheva, V.F., Levitskiy, E.A., Likhobabenko, V.S., AUTHORS:

and Masolova, F.A. (Moscow)

Mechanically Strong Aluminonickel Catalyst for the TITLE:

Process of Destructive Hydrogenation (

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1960, Nr 2, pp 159-164 (USSR)

ABSTRACT: The process of destructive hydrogenation of crudes and residues under a moderate pressure in a circulating stream of a catalyst developed by the Petroleum Institute

of the Academy of Sciences USSR (Ref 1) requires the application of catalysts which are resistant to wear. An investigation of the influence of conditions of preparation of aluminonickel catalysts, containing 10% of nickel oxide, on their mechanical strength is described in the present paper. The experiments were carried out on a small and pilot plant scale. The precipitation of mixed and separate aluminium and nickel hydroxides from

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2N solutions of nitrates or sulphates was done with sodium hydroxide, controlling the pH of the medium, temperature

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Mechanically Strong Aluminonickel Catalyst for the Process of Destructive Hydrogenation

of precipitation, ageing time of the precipitated hydroxides and, in the case of separate precipitation from sulphate salts, the amount of wash water on the residual content of sulphate ion. The experimental results obtained are given in tables: Table 1 gives the influence of pH of the medium during precipitation on the strength of the catalyst (experimental conditions: precipitation temperature 20 °C; ageing temperature 20 °C; washing with ammoniacal water at room temperature 7 Table 2 gives the influence of pH of the medium during precipitation on the strength of the catalyst (experimental conditions: duration of ageing 45 hours, pH during precipitation 9.6); Table 3 gives the influence of ageing on the mechanical strength of the catalyst (pH at the end of precipitation 9.6, precipitation and ageing at room temperature); Table 4 gives the influence of chemical composition on the content of sulphate ions in aluminonickel catalysts; Table 5 gives the properties of aluminonickel catalysts prepared by the method of separate

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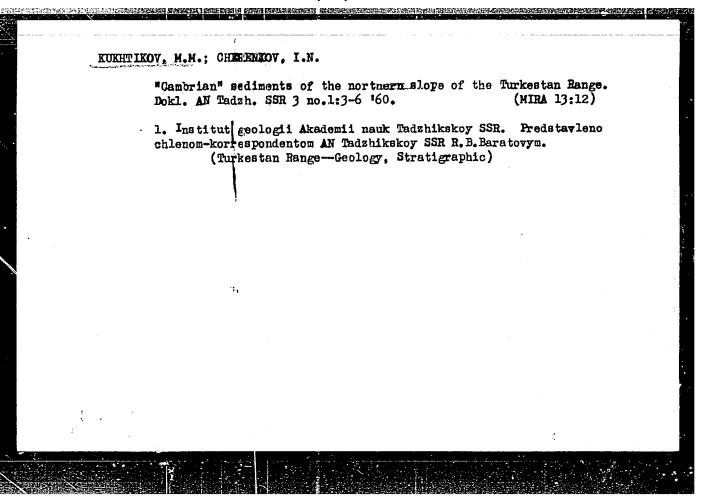
8/180/60/000/02/025/028 E071/E135

Mechanically Strong Aluminonickel Catalyst for the Process of Destructive Hydrogenation

precipitation. The activity of the catalysts prepared was tested under standard conditions of destructive hydrogenation at a moderate pressure (Ref 1) of sulphurous Tuymazin crude oil and compared with that of an industrial aluminomolybdenum catalyst. The experimental results are given in Table 6. It was found that in respect of their activity aluminonickel catalysts are not inferior to industrial aluminomolybdenum catalyst Nr 7360: the yield of liquid products amounted to 87-90%, the yield of coke to 2.7-3.8% and the degree of desulphurigation to 76-88%. It is concluded that aluminonickel catalyst prepared under optimum conditions possesses satisfactory mechanical properties and activity for the process of destructive hydrogenation under a moderate pressure (30 atm).

Card 3/3

There are 6 tables and 7 references, of which 5 are Soviet, 1 is English and 1 is German.

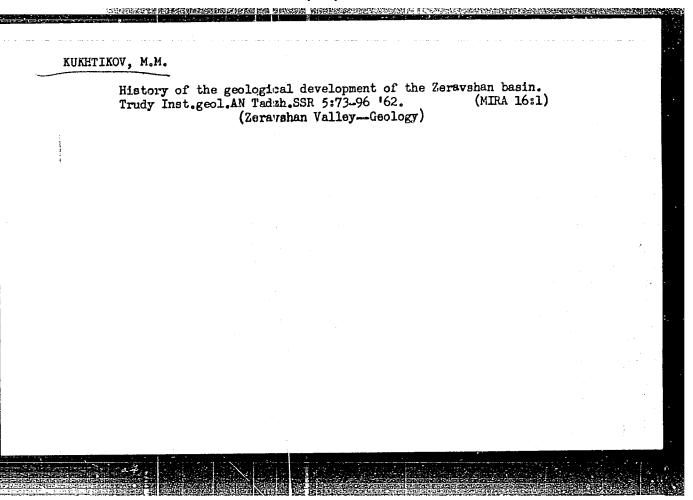


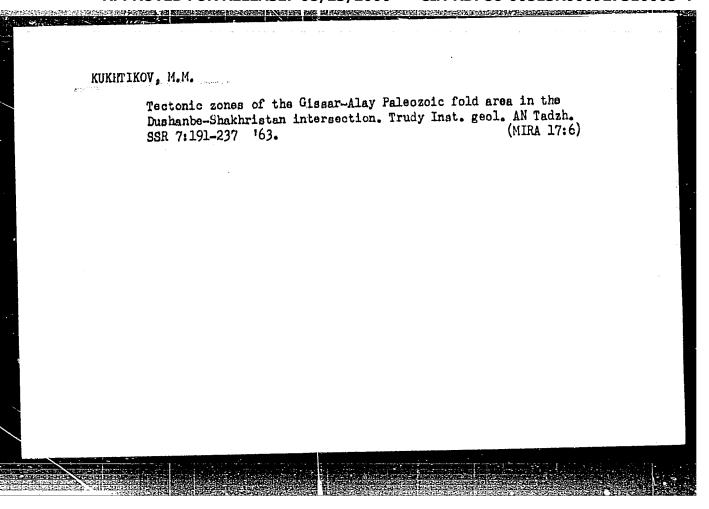
Mathods for compiling stratigraphic maps of fold areas. Report Nq.1:99-112 '61. (MIRA 15:12) 1. Institut geologii AN Tadzhikskoy SSR. (Geology, Structural—Maps)

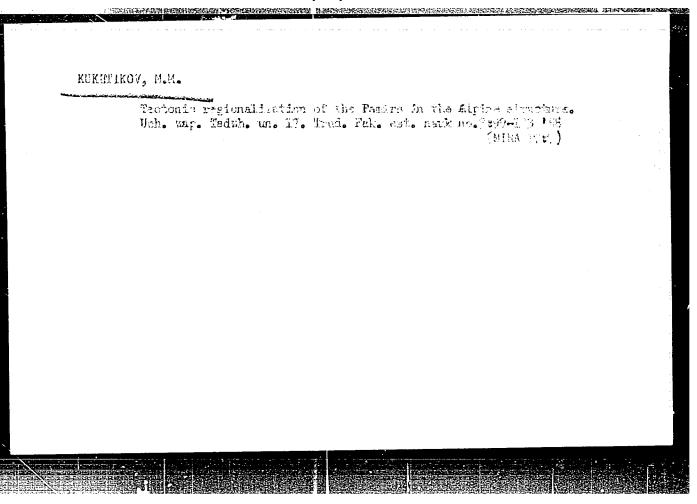
ZAKHAROV, S.A., red.; KUKHTIKOV, M.M., red.; GELLER, S.P., tekhn. red.

[Abstracts of reports of the Second All-Union Conference on Tectonics] Tezisy dokladov Vsesoiuznogo tektonicheskogo soveshchaniia. Red. S.A.Zakharov, M.M.Kukhtikov. Dushanbe, AN Tadzhik.SSR, 1962. 113 p. (MIRA 17:4)

1. Vsesoyuznoye tektonicheskoye soveshchaniye, 2d, Dushanbe.







BARKHATOV, B.; VLASOV, N.G.; ZAKHAROV, S.A.; KUKHTIKOV, M.M.

[Excursion guide of the second All-Union Tectonics Society] Putevoditel' ekskursii. Dushanbe, In-t geologii AN Tadzhik.SSR, 1962. 98 p. (MIRA 17:7)

1. Vsesoyuznoye tektonicheskoye soveshchaniye, 2d, Dushanbe.

BARATOV, R.B., otv. red.; KUKHTIKOV, M.M., zam. otv. red.;
BABAKHODZHAYEV, 5.W., red.; BABKOV, K.V., red.;
DZHALILOV, M.R., red.; ZAKHAROV, S.A., red.; NOVIKOVA,
T.I., red.; PANKRATOV, P.A., red.; REYMAN, V.M., red.

[Problems of the geology of Tajikistan; festschrift for
the 23d Session of the Geological Congress in Delhi)
Problemy geologii Tadahkistana; sbornik, posviashchennyi
XXII sessii Mezhdunarodnogo geologicheskogo kongressa v
Deli. Dushanbe, AN Tadzhik SSR, 1964. 290 p.
(MIRA 18:3)

1. Akademiya nauk Tadzhikskey SSR, Dushanbe. Institut
geologii.

KUKHTIKOVA, T. I.

KUKHTIKOVA, T. I.--"A Study of Dislocations in the Foci of Garm Oblast Based on Data from the Regional Network of Central Asia from 1952-1954." Acad Sci USSR. Geophysics Inst. Moscow, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences).

SO: Knizhnaya Letopis' No. 27, 2 July 1955

GOTSADZE, O.D.; KIRILLOVA, I.V.; KOGAN, S.D.; KUKHTIKOVA, T.I.;

MALINOVSKAYA, L.N.; SORSKIY, A.A.; KEYLIS-EOROK, V.I.,

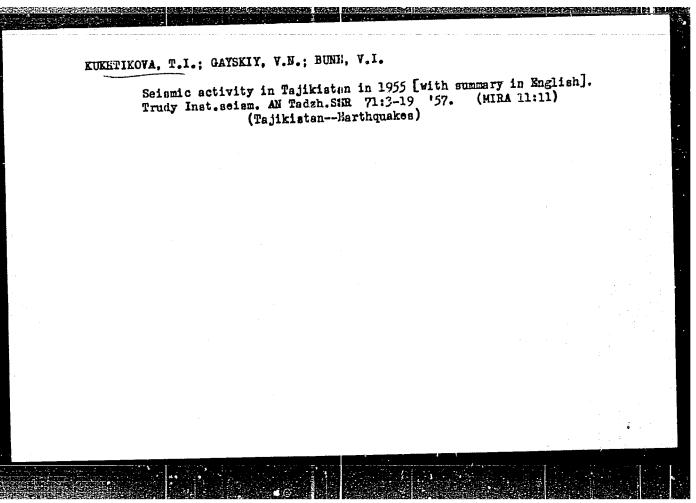
doktor fiziko-matematicheskikh nauk, otvetstvennyy redaktor;

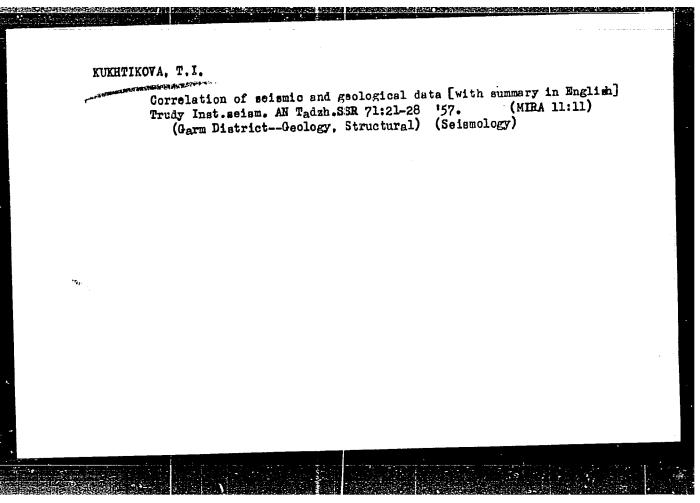
ZAYTSEV, L.P., redaktor izdatol'stva; EZ, V.V., redaktor

izdatel'stva; SHEVCHENKO, G.N., tekhnicheskiy redaktor.

[Investigation of the mechanism of earthquakes] Issledovanie mekhanizma zemletriasenii. Moskva, Izd-vo Akademii nauk SSSR, 1957. 148 p. (Akademiia nauk SSSR. Geofizicheskii institut. Trudy, no.40).

(Seismologr)





S/169/61/000/009/013/056 D228/D304

AUTHORS:

Kukhtikova, Tala, and Barinova, A. Ya.

TITLE:

Mechanism of focal movements during the Shurobsk

earthquake and its recurrent shocks

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 16,

abstract 9A133 (Tr. In-ta seysmostoyk. str-va i seysmol.

AN TadzhSSR, v. 7, 1960, 97-102)

TEXT: The mechanism of the Shurobsk earthquake (0042 hr. on July 21, 1955, $E = 10^{12}$ j, $\phi = 38^{\circ}56^{\circ}$ N, $\lambda = 69^{\circ}40^{\circ}$ E, H = 20 km) and its

recurrent shocks is determined by the Keylis-Borok method. The following conclusions are drawn from comparing the results for the main tremor and the 12 strongest recurrent shocks: (1) The mechanism of the focal movement of the recurrent shocks repeats the basic features of the mechanism of the strong earthquake. (2) The dislocations found for the trend of the rupture planes differ within the limits of 20°. (3) At the foci,

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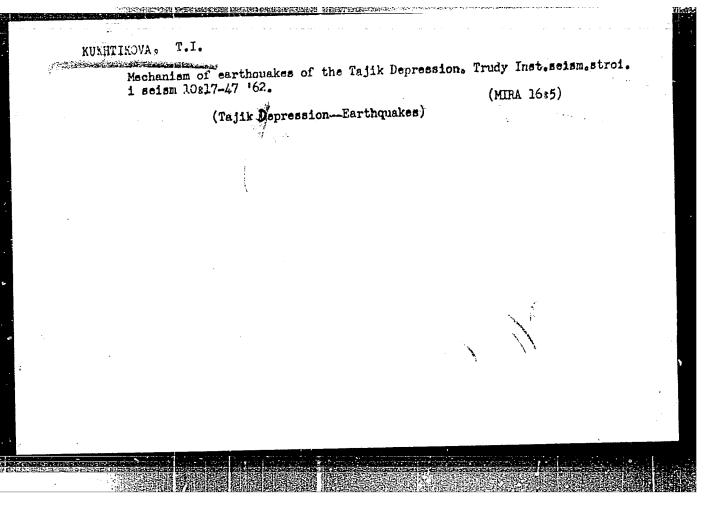
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Mechanism of focal...

the rupture surfaces are steeply inclined (39 - 58°) to the horizontal.

(4) The relative rupture displacement at the 12 foci is associated with the uplift of the eastern block and with the subsidence of the north-western block. (5) Most of the dislocations at the Shurobsk foci are regarded as combinations of overthrusts and faults (in the geologic sense). (6) Despite the similarity of the movement mechanism of the foci under consideration, the first arrivals of longitudinal waves at certain stations have different directions; this is due to the small slewing of the planes or direction of the movements. Abstracter's note: Complete translation.

Card 2/2

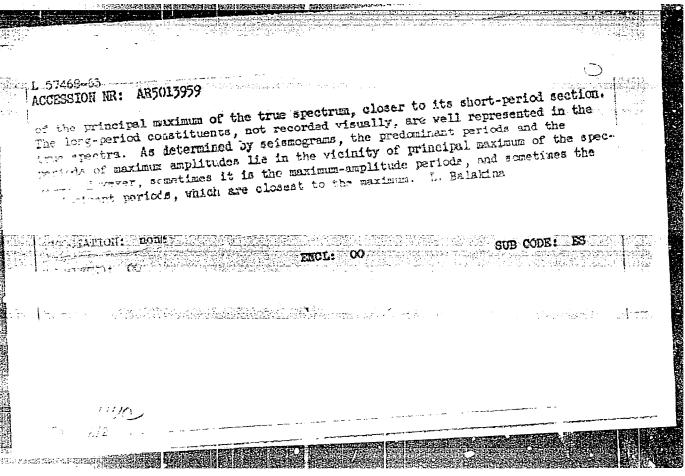


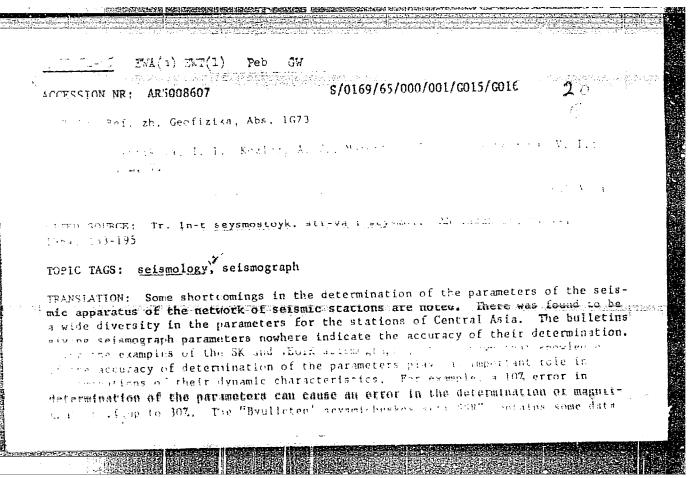
RUKHTIKOVA, T.I.; FRANTSUZOVA, V.I.; YEFERINA, G.P.; ABRAMOVICH, I.B.; PAVLOVA, G.I.

Prevailing periods of surface waves. Dokl. AN Tadzh. SSR 6 no.3:17-21 '63. (MIRA 17:4)

1. Institut seysmostoykogo stroitelistva i seysmologii AN Tadzhikskoy SSR. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR R.B.Baratovym.

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AUTHOR: Kukhtikova T.I.; Frantsuzova, TPPLE: Correspondence between predominar	V.I. nt periods and surface-wave 5	pectra B
german, Bor sh. Georizika, Abs. 4097		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
CITED SOURCE: Tr. In-t seysmostcyk. str	:-va i seysmol. AN TadzhSSR, v	. 12, 1964,
TOPIC TAGS: seismic wave, surface wave,		್ಕೆ ಇವೆಂಬ್
ARCTRACT. Visually determined approximation of the control of the determination of the control of the determination of the control of the determination of the control of t	ng from 1,200 to -,000 ca ver of true spectra were eliminate nined spectral characteristics	d. Complex of the true
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on the parameters of seismic apparatus. These data are given in a form quite unsuitable for computation of the dynamic characteristics in a broad range of frequencies. It is extremely irrational for the computation of the characteristics to be left to each interpreter. It is proposed that apparatus data be published in the form of detailed tables. Such work already has been done for 14 stations of the general type in Central Asia for the period 1955-1959 and for the expeditionary stations of Tadzhikistan for 1955-1962. Computed data are presented in tables. A. Rykov

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DONSKOY, Al.V., doktor tekhn. nauk, prof.; DONSKOY, An.V.;
DRESVIN, S.V.; IVENSKIY, G.V.; KUKHTIN, A.M.; LEYBIN,
Yu.V.; MONDHUS, D.B.; SOLOMAKHIN, I.M.; FRUMKIN, A.A.;
BALASHOV, V.A., retsenzent

[High-frequency electrothermy; a handbook] Vysokochnstotnaia elektrotermiia; spravochnik. Moskva, Mashinostroenie,
1965. 564 p. (MIRA 18:6)

BORONENKOV, V.N.; YESIN, O.A.; SHURYGIN, P.M.; KUKHTIN, B.A.

Polarization curve method of studying the kinetics of the direct reduction of iron from fused oxides. Elektrokhimiia 1 no.10:1245reduction of iron from fused oxides. Elektrokhimiia 1 no.10:1245(MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

- 1. KUKHTIN, D. V.
- 2. USSR (600)
- 4. Limekilns
- 7. Signal apparatus to indicate charge in the lime kiln. Sakh. prom. 26 no. 10, 152.

. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

KUKHTIN, F.P. Polgoda Raboty Na Tselinnoy Zemle. (Rasskaz Dir. Ordzhonikidzevskogo Lernosovkhoza Kństanayskoy obl. Kazakh. SSR...) (Lit. Zapis' I. Ya. Ivanova-Rachnogo i A.B. Mashchankinoy). M., Izd-vo M-VA Sovkhozov SSSR. 1954. lls 20sm (M-Vo Sovkhozov SSSR. 0194. vupr. s.-kh. Propagandy. Osvoenie Tselinnykh i Zalezhnykh.Zemel'-Vsenarodnoye Dslo). 15,000ekz. Bespl.-Na obl. avt. Ne Ukazan.-(54-57202* P. 338.1 Sov: 633.17 631.61) (584.63)

SO: Knizhnaya Letopis', Vol. 3, 1955

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- 1. KUKHTIN, I. N.
- 2. USSR (600)
- 4. Yelat'ma Region Borings
- 7. Report on the results of the exploration in the Yelatima area (1944). Abstract. Izv. Glav. upr. geol. fon., no. 2, 1947.

9. Monthly List of Bussian Accessions, Library of Congress, March 1953, Unclassified.

KUYMITIN, I.N., Doc Geol-Min Sci — (diss) "Certain problems in the formation of petroleum and gas segregations in the Soviet part of the Eastern Carpathians and Pre-Carpathians." L'vov, 1959, 38 pp with diagrams (Min of Higher Education UkSSR.
L'vov Polytechnical Inst) 150 copies (KL, 28-59, 124)

- 30 -

KUKHTIN, I.N.

Time of the formation of oil and gas pools in the eastern Carpathian oil— and gas—bearing province. Geol.neft i gaza 6 no.10i38-41 0 '62. (MIRA 15:12)

1. L'vovskiy politekhnicheskiy institut. (Carpathian Mountains--Petroleum geology) (Carpathian Mountains--Gas, Natural--Geology)

8/058/63/000/003/040/104 AC62/A101

AUTHORS:

Khaykin, M. S., Derstuganov, G. V., Levkoyev, I. I., Kukhtin, V. A.,

Shamil'skaya, D. B.

TITLE:

On the developing properties of some 4-aminopyrazolones (5) and

their derivatives. Report II

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 82, abstract 3D560

("Tr. Vses. n.-i. kinofotoin-ta", 1962, no. 46, 5 - 16)

A synthesis was made of some 1-phenyl and 1-sulphophenyl-3-carbmethoxy- and 3-carbalcoxymethy1-4-aminopyrazolones (5). The developing properties of these compounds were investigated. It is shown that the conservation of weakly alkaline developing solutions, containing 4-am nopyrazolones, depends to a large extent on the electron character of the substitutes in the lat and 3rd positions of these compounds. It is made clear that the introduction of electronegative substitutes into the 1st and 3rd position of 4-aminopyrazolones reduces the stability of the developing solutions of these compounds with respect to the ions of bromine. For report I see RZhFiz, 1962, 10287. [Abstracter's note: Complete translation] Card 1/1

CIA-RDP86-00513R000927310005-4" APPROVED FOR RELEASE: 08/23/2000

s/058/63/000/003/042/104 A062/A101 Akhmedzyanov, M. A., Slesareva, V. I., Khaykin, M. S., Kukhtin, AUTHORS: V. A., Borin, A. V. About the influence of some antioxidizers on the photographic properties and conservation of emulsion layers TITLE: PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 84, abstract 30575 ("Tr. Vses. n.-i. kinofotoin-ta", 1962, no. 46, 31 - 35) A study was made on the influence of some derivatives of polyphends and hydrasine on the photographic properties and conservation of sensitized emulsion layers. It was found that phenylhydrazone of glucose and phenylglucosazone contribute to improve the conservability of sensitized light-sensitive layers. There are 12 references. [Abstracter's note: Complete translation] Card 1/1

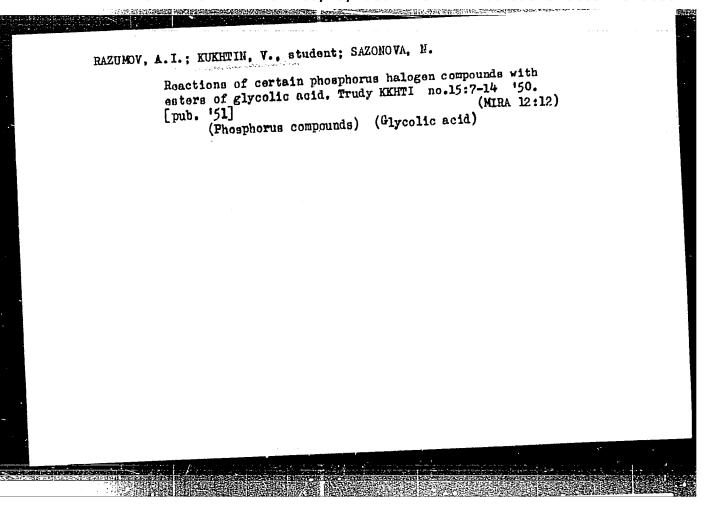
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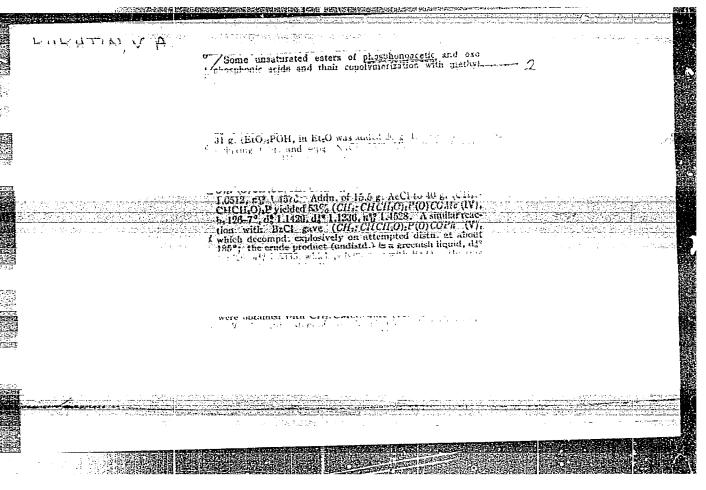
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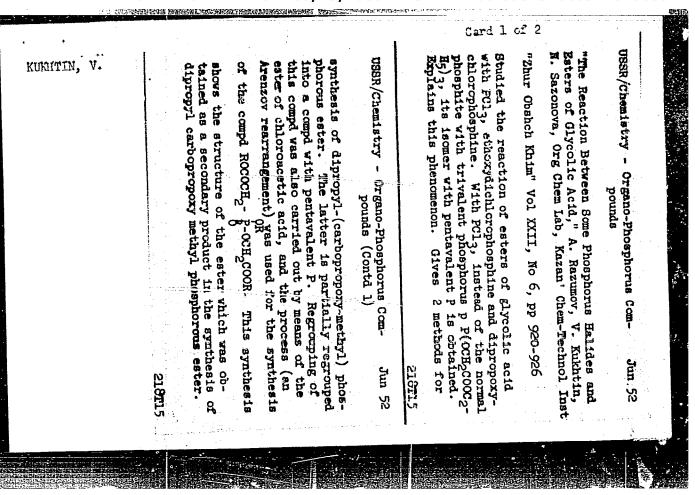
ASSOCIATION: Institut organicheakoy khimii Akademii nauk SSSR, Kazan' (Institute of Organic Chemistry of the Academy of Sciences, SSSR)

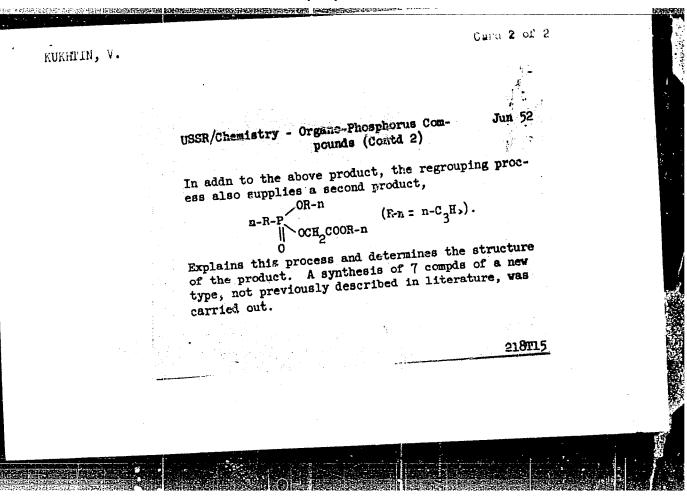
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Card 2/2









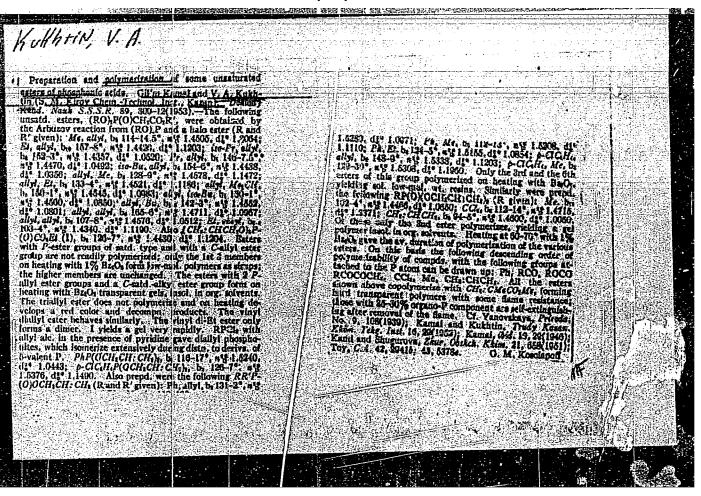
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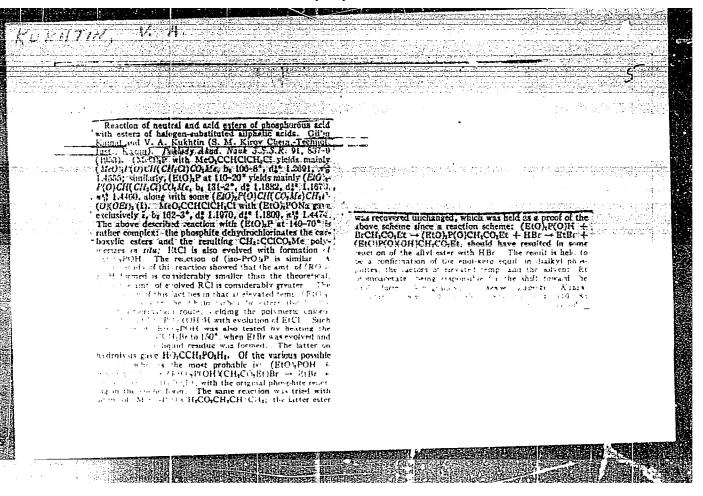
KUKHTIN, V. A.

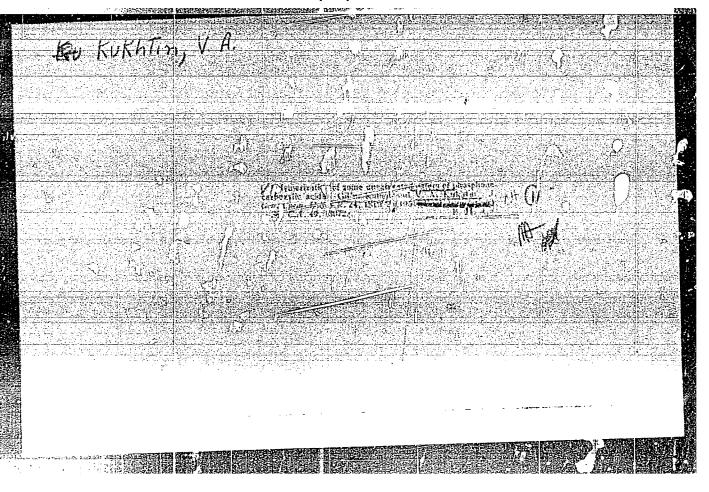
Dissertation: "Research Into the Field of the Preparation of Unsaturated Esters of Phosphoric Acids and Their Polymerization. Cand Chem Sci, Kazan Chemico-Technological Inst, Kazan' 1953. W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (WX19955)

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CIA-RDP86-00513R000927310005-4

KUKHTIN, V.A.

USSR/Chemistry - Polymerization

Card 1/1 Pub. 151 - 29/37

Authors

: Gil'm Kamay., and Kukhtin, V. A.

Title

: Polymerization of certain unsaturated phosphonium carboxylic acid esters

Periodical: Zhur. ob. khim. 24/10, 1855-1860, Oct 1954

Abstract

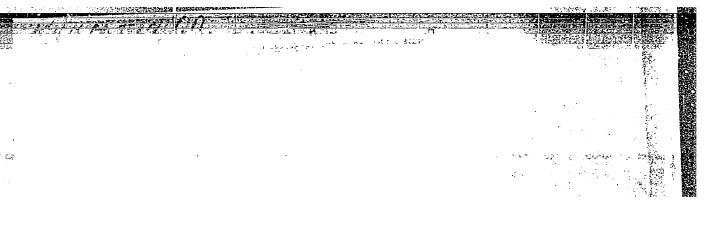
: The synthesis of new unsaturated phosphonium carboxylic acid eaters and results of studying their polymerizability, are described. The derivation of copolymers of unsaturated phosphonium carboxylic acid esters, combined with methyl methacrylate and their properties, are discussed. The process of polymerization of these esters is explained. Three references: 2-USSR and

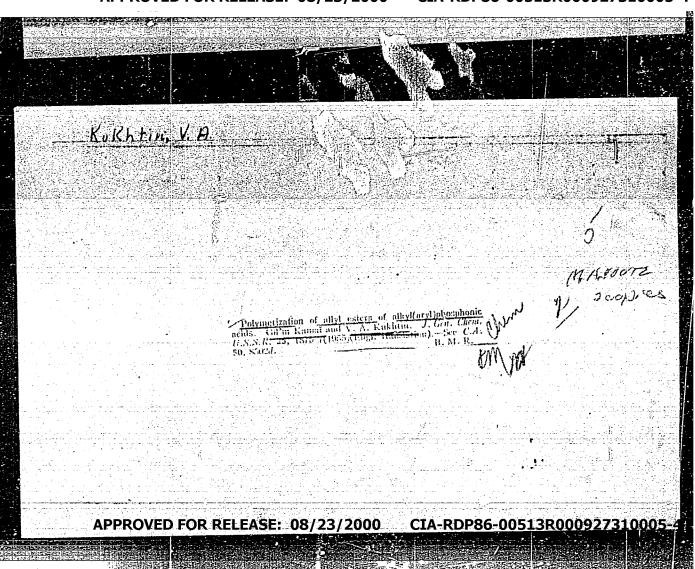
1-German (1914-1953). Tables.

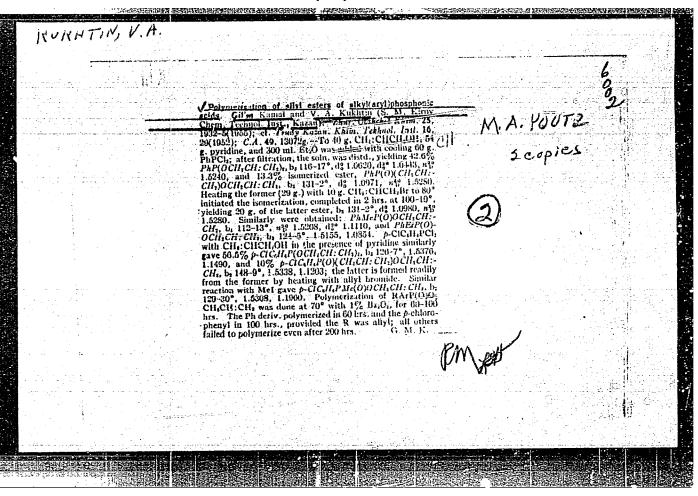
Institution: The S. M. Kirov Institute of Chemical Technology, Kazan

Submitted : May 15, 1954

Translation B-83649, 21 has 55







Kukhem, VA.

USSR/Chemistry - Reaction processes

Card 1/1

Pub. 22 - 24/59

Authors

* Kemay, Gil'm, and Kukhtin, V. A.

Title

* Reaction of acetic anhydride with trialbylphosphites

Periodical : Dok. AN SSSR 102/2, 283-285, May 11, 1955

Abstract

It was established experimentally that the reaction between acetic anhydride and trialkylphosphites occurs at a temperature of 130-140° The products derived from this reaction and their phys.-chem. properties are described. It is assumed that the investigated reaction is also common for other acid anhydrides. Seven Russ. and USSR references (1914-1954).

Institution :

Kazan! Chemicotechnological Inst. im. S. M. Kirov

Presented by:

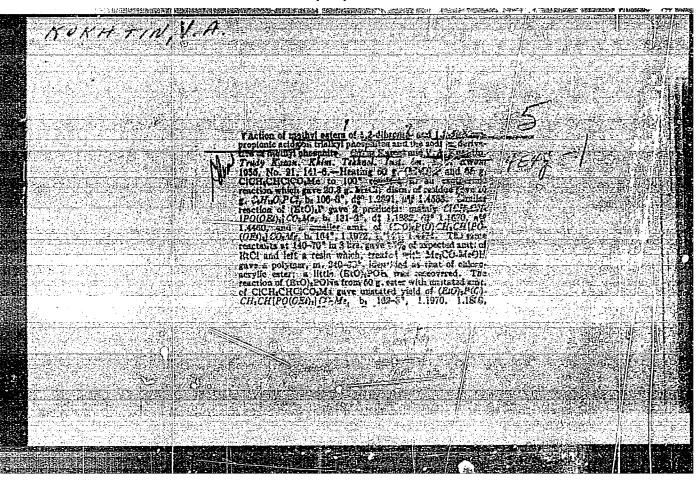
Academician A. Ye. Arbuzov, December 27, 1954

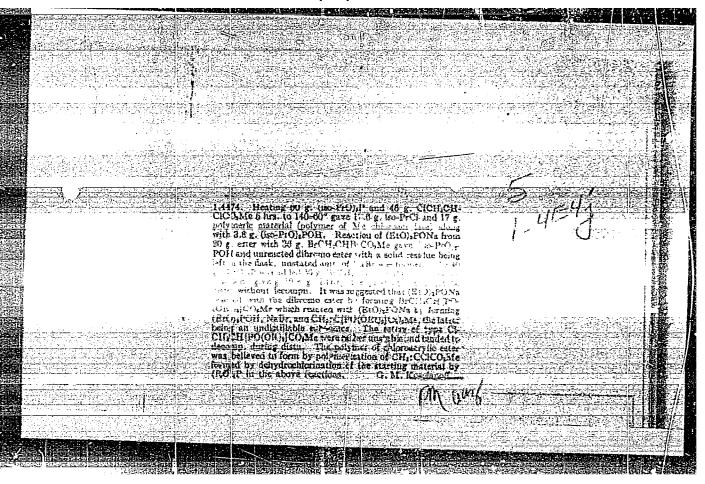
CIA-RDP86-00513R000927310005-4" **APPROVED FOR RELEASE: 08/23/2000**

RUBHTET, V. A. and KAMAY, G.

"Reaction of Trialkl Phosphites with Some Organic Acids and Anhydrides" paper presented at Nn First Conference on Phosphorous Compounds, Kazan, 8-10 Dec 56

SO: B-3,084,841



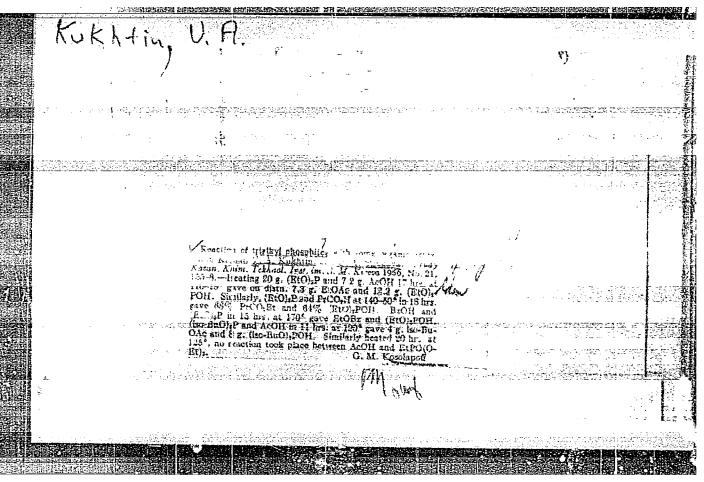


KAMAY, Gil'm; KUKHTIN, Y.A. (Kazan')

Tautomerism of diethylphosphorous acid. Trudy KKHTI no.21:147-154

(Phosphorous acid) (Tautomerism)

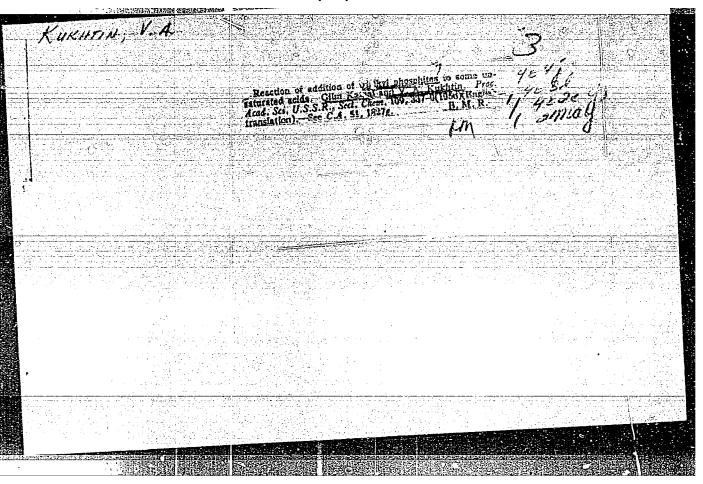
(MIRA 12:11)



Conserving the Addition Reaction of Trialkylphosphites to Ceratain Unsaturated Acids," by Gil'm Kamay and V. A. Kukhtin, Kazan Chemicotechnological Institute imeni S. M. Kirov, Doklady Akademii Nauk SSSR Vol 109, No 1, Jul 56, pp 91-93

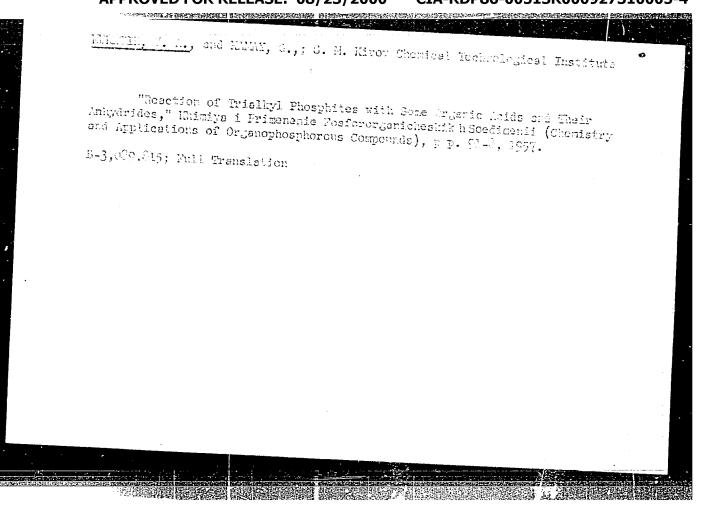
The article discusses previous work and introduces analytical data supporting the existence of an addition mechanism of trialkylphosphites to unsaturated acids to form complete esters of the corresponding betaphosphoncarboxylic acids. Another possible mechanism for this reaction, i.e., preliminary re-esterification of the components with the formation of dialkylphosphorous acid and an ester of an unsaturated acid, does not seem probable in view of the fact that under these conditions dialkylphosphorous acid does not add to acrylic acid without a catalyst.

This addition reaction of trialkylphosphites to unsaturated acids broadens the existing methods of preparing esters of phosphonic acids.

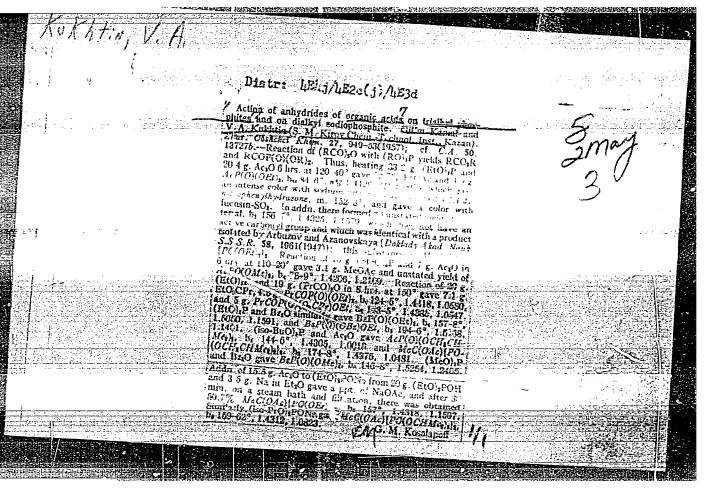


"Coploymerization of a few unsaturated esters of phosphoric acid," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Kazan University

B-3,084,395



"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927310005-4



KAMAT, G11'm; KURHTIN, V.A.

Addition of phosphorus and phosphinous acid esters to conjugated systems. Part 1: Addition of trialkyl phosphite to acrylic and metacrylic acids. Zhur. ob. khim. 27 no.9:2372-2376 S '57.

(MIRA 11:3)

1. Kazanskiy khimiko-tekhnologicheskiy institut.

(Phosphorous acid) (Acrylic acid)

KAMAY, Gil'n; KUKHTIN, V.A.

Addition of phosphorus and phosphinous acid esters to conjugated systems. Part 2: Addition of trialkylphosphites to acrolein and crotonaldehyde. Zhur. ob. khim. 27 no.9:2376-2380 S '57.

(MIRA 11:3)

1.Kazanskiy khimiko-tekhnologicheskiy institut.

(Phosphorous acid)

(Acrolein)

(Grotonaldehyde)

KUKHIIN, V.A.

"Addition of Trialkylphosphites to alpha, beta-Unsaturated Aldehydes," by Gil'm Kamay and V. A. Kukhtin, Kaman' Chemico-technological Institute imeni S. M. Kirov, Doklady Akademii Nauk SSSR, Vol 112, No 5, 1957, pp 868-871

The authors investigated the mechanism and conditions for the addition of trialkylphosphites to unsaturated aldehydes. Addition was found to take place at the 1-4 positions. Evidence is presented attesting to the formation of an intermediate product which helps to explain the mechanism of the reaction, which is proposed to take place in two stages according to the Arbuzov rearrangement. (U)

Sum. 1360